UTAH NATIONAL GUARD DRAPER HEADQUARTERS OFFICE REMODEL

12953 MINUTEMAN DRAPER, UTAH 84020





STATE OF UTAH

DEPARTMENT OF ADMINISTRATIVE SERVICES

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

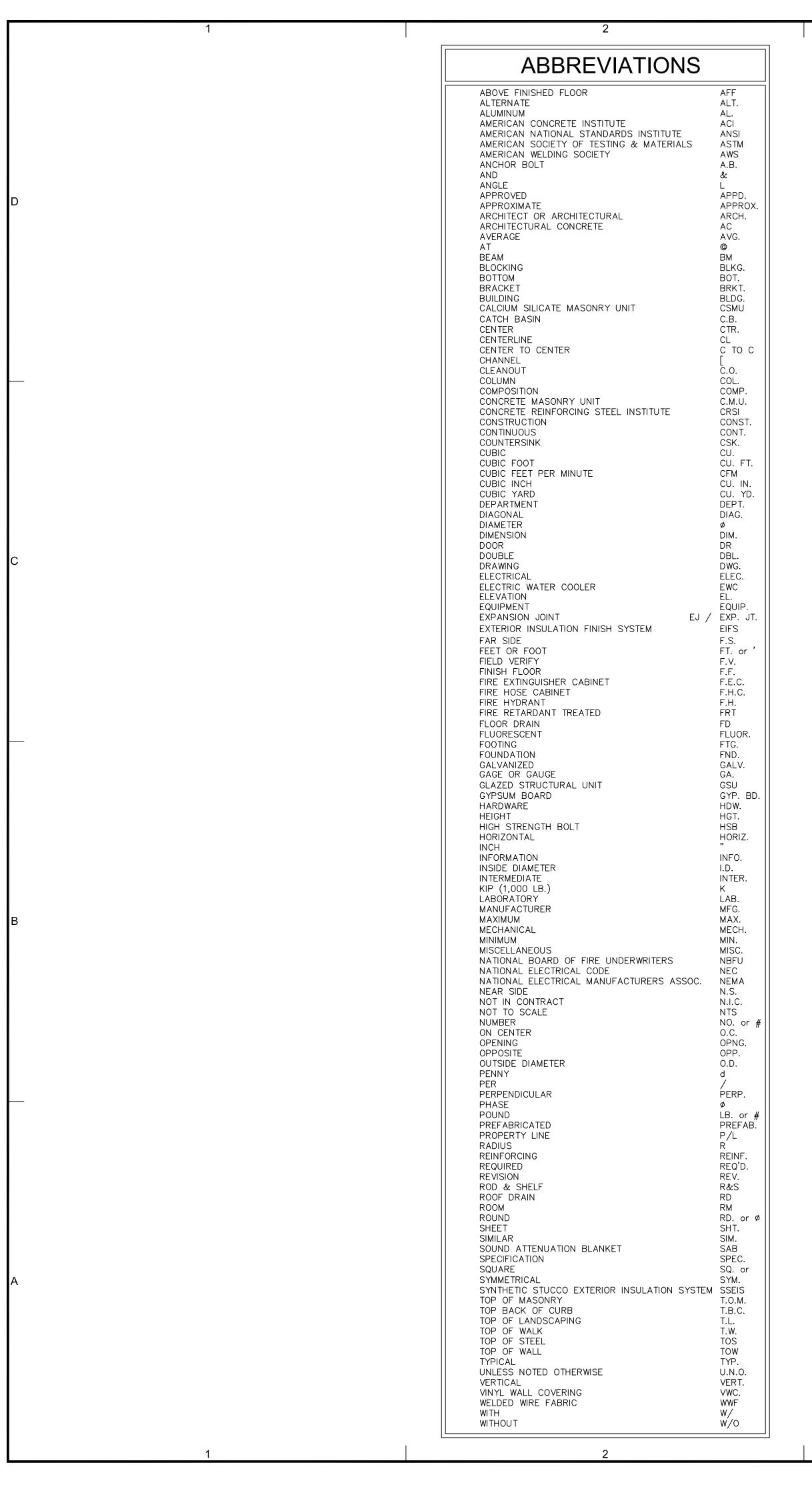
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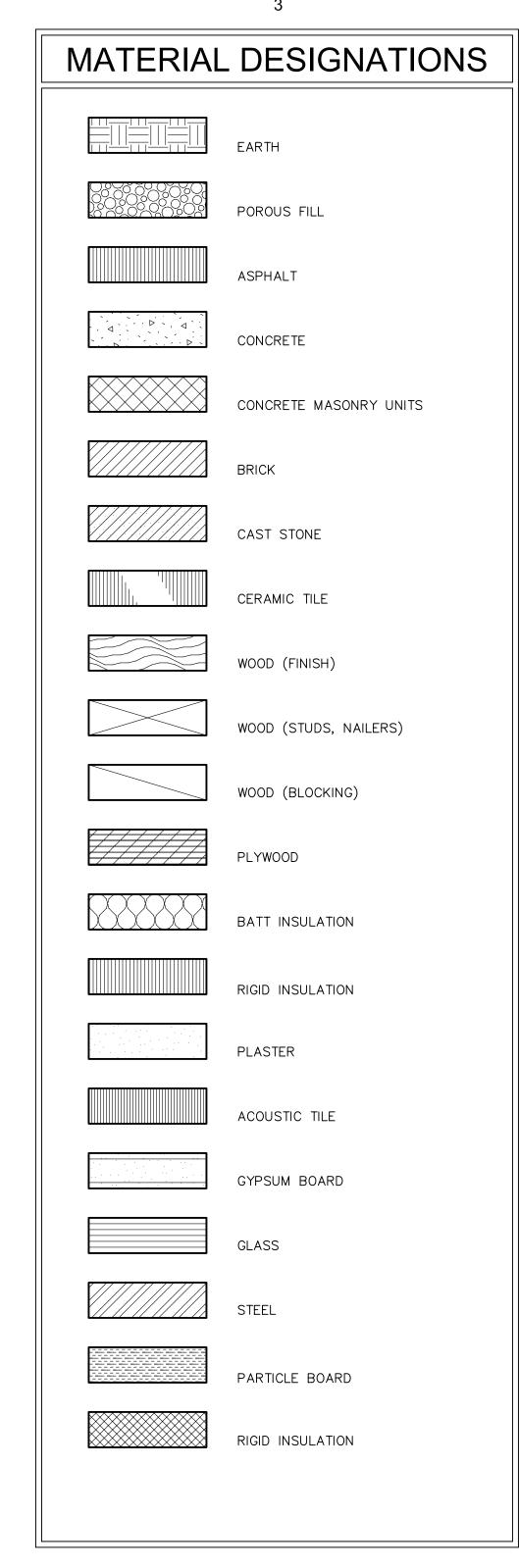
DFCM PROJECT NO. 05232470

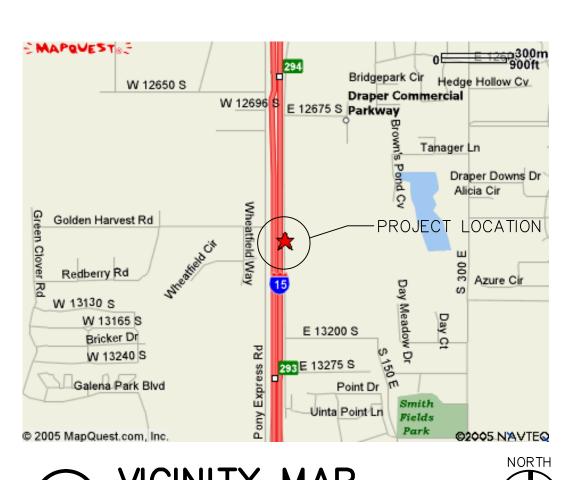


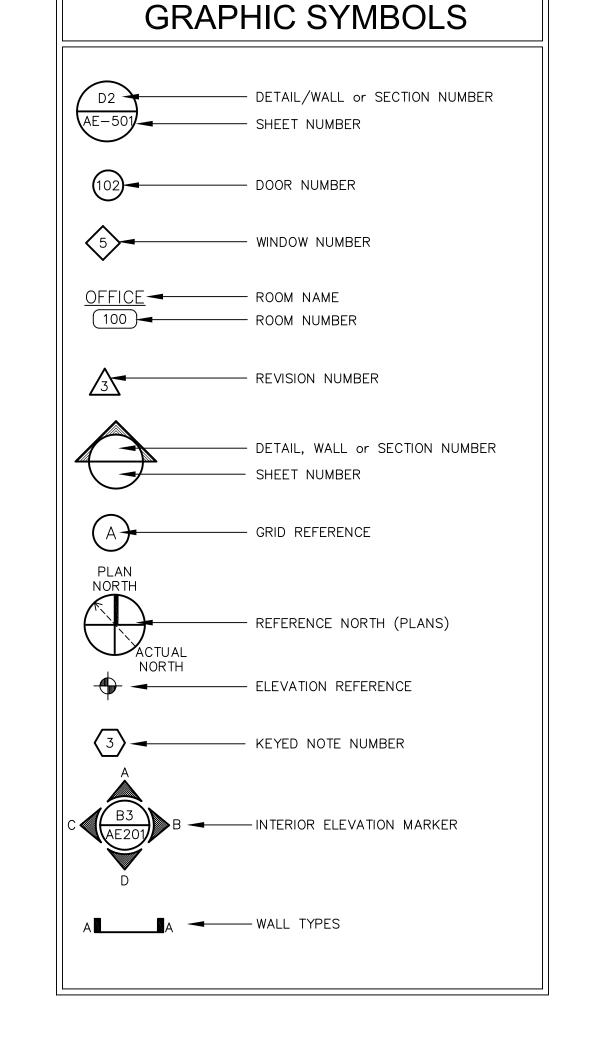












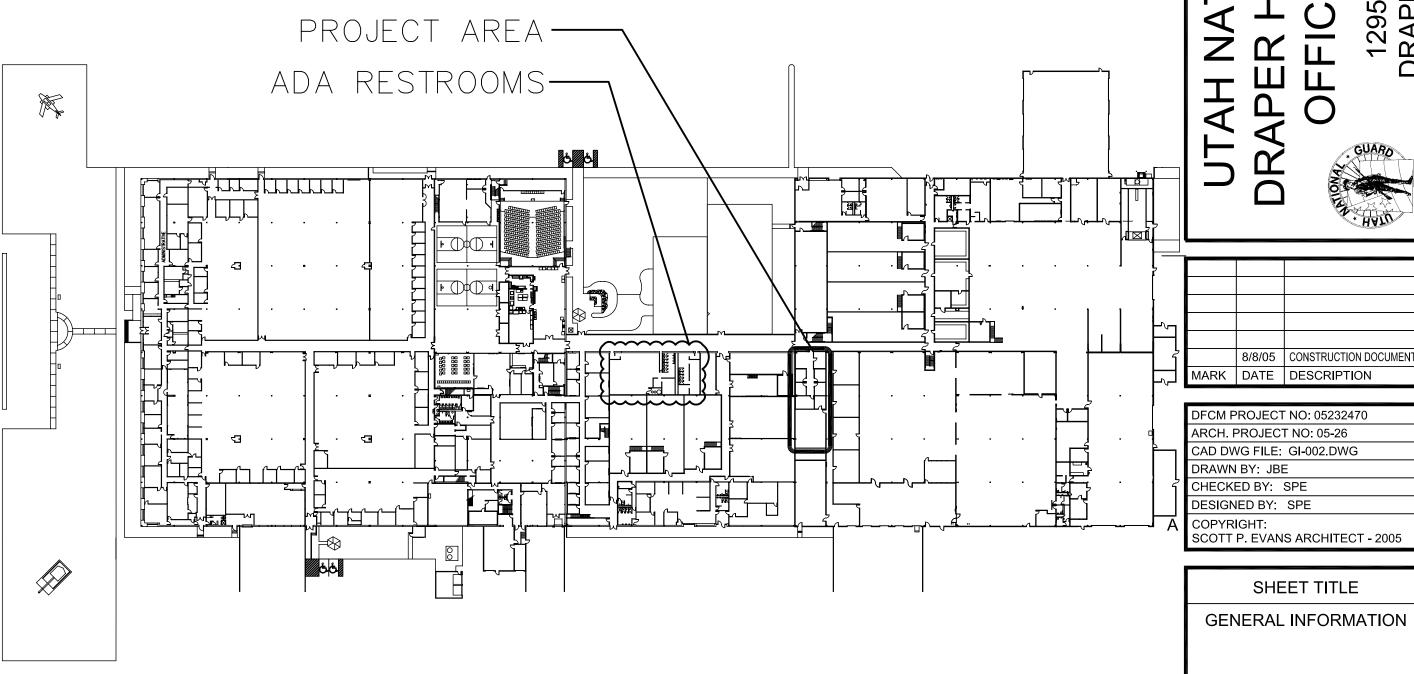
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SHEET #	DRAWING TITLE	SHEET OF				
GI-001	TITLE SHEET	1 OF 17				
GI-002	GI-002 GENERAL INFORMATION					
AE-101	DEMOLITION PLAN, FLOOR PLAN & KEYED NOTES	3 OF 17				
AE-102	REFLECTED CEILING PLAN & KEYED NOTES	4 OF 17				
AE-501	DETAILS	5 OF 17				
AE-601	SCHEDULES	6 OF 17				
MI-000	MECHANICAL SYMBOLS AND LEGENDS	7 OF 17				
MD-101	MECHANICAL DEMOLITION PLAN	8 OF 17				
ME-101	MECHANICAL PLAN	9 OF 17				
ME-102	MECHANICAL EQUIPMENT SCHEDULES AND DETAILS	10 OF 17				
EE-001	SYMBOL LEGEND/SHEET INDEX	11 OF 17				
EE-101	REFERENCE PLANS	12 OF 17				
EE-102	DEMOLITION & FIRE ALARM PLANS	13 OF 17				
EE-103	POWER & LIGHTING PLANS	14 OF 17				
EE-501	DETAILS	15 OF 17				
EE-502	DETAILS	16 OF 17				
EE-601	SCHEDULES	17 OF 17				



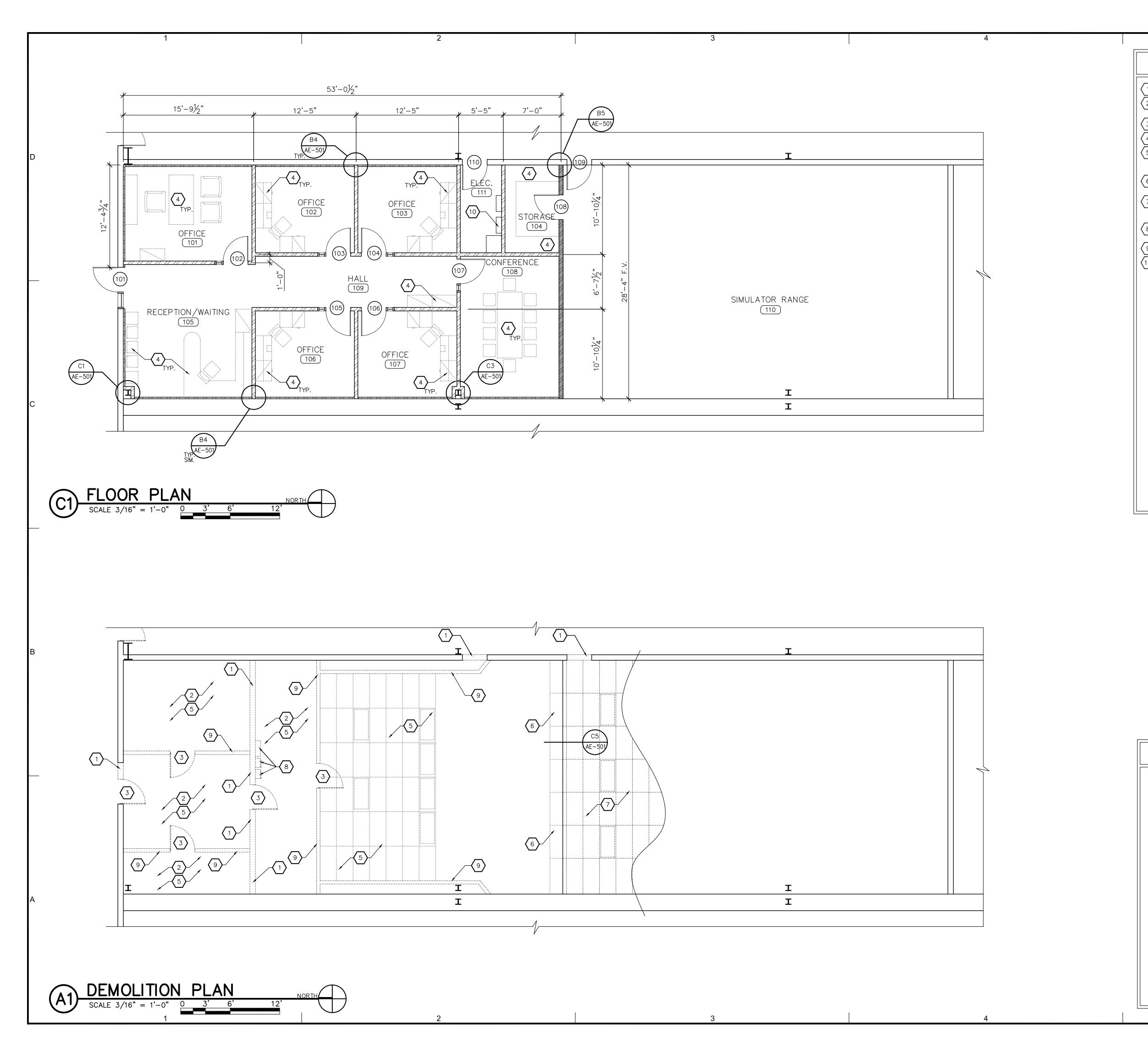
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GI-002







KEYED NOTES

EXTG. CMU WALL TO BE REMOVED SAW CUT AS REQUIRED.

EXTG. CARPET, VCT & ALL RELATED MATERIALS TO BE REMOVED.

EXTG. DOOR/FRAME TO BE REMOVED.

(NIC) FUTURE OFFICE FURNISHING TYP. SHOWN DASHED.

EXTG. CEILING SYSTEM & ALL RELATED MATERIALS TO BE REMOVED — SEE MECHANICAL & ELECTRICAL DEMOLITION DRAWINGS.

THIS PORTION OF EXTG. CEILING SYSTEM TO BE REMOVED — REFER TO DETAIL INDICATED.

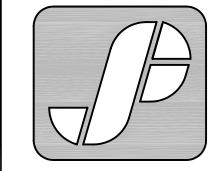
EXTG. CEILING SYSTEM TO BE MODIFIED TO BUTT UP AGAINST THE NEW SOUND WALL RUNNING FROM ROOF DECK TO FLOOR — REFER TO DETAIL INDICATED.

EXTG. HVAC ELECTRICAL PANELS TO BE REMOVED — SEE ELECTRICAL DRAWINGS.

REMOVE EXTG. WALLS & ALL RELATED MATERIALS.

NEW ELECTRICAL ITEMS SEE ELECTRICAL DRAWINGS

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KEY TO WALL TYPES

EXTG. WALLS TO REMAIN.

// // // //

INDICATES WALL WITH 35%" 20 GA. METAL STUDS AT 16" O.C. WITH 5%" TYPE "X" GYP. BD. EACH SIDE — EXTEND TO 6" ABOVE CEILING.

INDICATES SOUND RATED WALL WITH 6" 20 GA. METAL STUDS @ 12" O.C. WITH 5%" TYPE "X" GYP. BD. EACH SIDE — EXTEND FROM FLOOR TO DECK ABOVE — SEAL TIGHT AROUND ANY PENETRATIONS AND SEAL TIGHT TO DECK ABOVE — PROVIDE 3" SOUND ATTENUATION BLANKET BETWEEN STUDS AND 52" RESILIENT CHANNELS AT 16" O.C. UNDER GYP. BD. ON ONE SIDE OF STUD ONLY — CAULK PERIMETER WITH ACOUSTICAL CAULK.

// // // //

NEW FURRING CONSISTING OF \(\frac{\pi}{8} \)" TYPE X GYP. BD. ON 1\(\frac{\pi}{8} \)" 20 GA. METAL STUDS \(\text{0} \)
16" O.C. \(- \text{EXTEND} \) TO 6" ABOVE CEILING LEVEL.

8/8/05 CONSTRUCTION DOCUMENTS
MARK DATE DESCRIPTION

DFCM PROJECT NO: 05232470
ARCH. PROJECT NO: 05-26
CAD DWG FILE: AE-101.DWG

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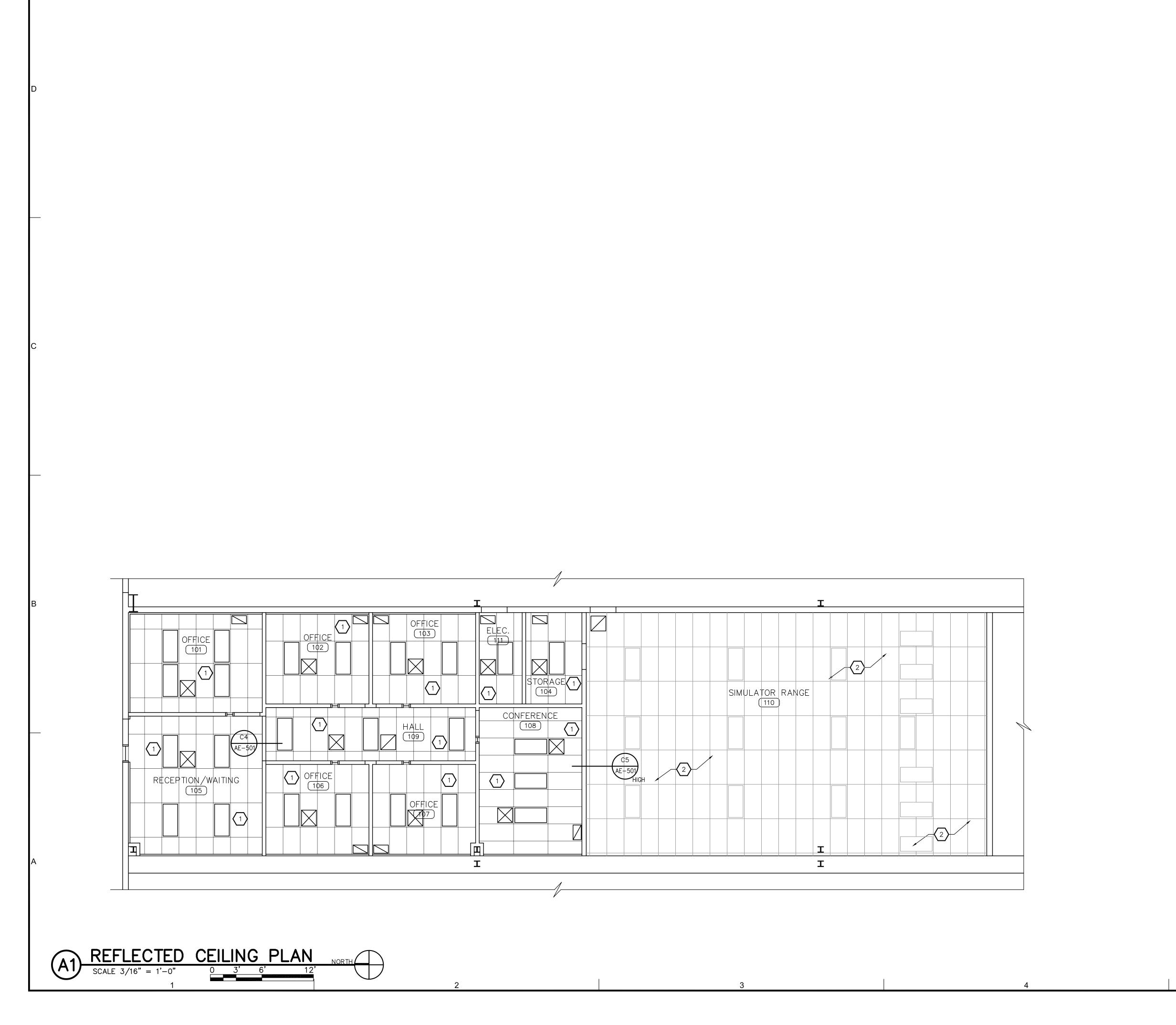
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SHEET TITLE
DEMOLITION PLAN,

FLOOR PLAN & KEYED NOTES

AE-101

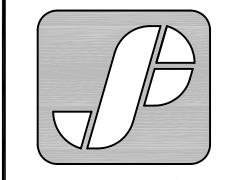


KEYED NOTES

NEW 2X4 SUSPENDED ACOUSTICAL LAY—IN PANEL CEILING SYSTEM WITH METAL GRID — SEISMICALLY SUPPORT NEW CEILING AS REQUIRED — REFER TO DETAIL D4/AE—501 — SEE SPEC.

EXTG. CEILING SYSTEM TO BE MODIFIED TO BUTT UP AGAINST THE NEW SOUND WALL RUNNING FROM ROOF DECK TO FLOOR — REFER TO DETAIL INDICATED — EXTG. LIGHTING TO REMAIN.

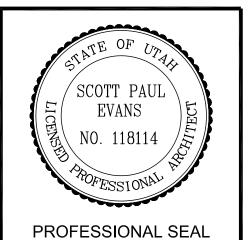
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SYMBOLS

NEW 2X4 RECESSED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

NEW HVAC SUPPLY AIR GRILLE - SEE MECHANICAL DRAWINGS

NEW HVAC RETURN AIR GRILLE — SEE MECHANICAL DRAWINGS

COORDINATE ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. FINAL LOCATIONS OF ALL LIGHTS, DIFFUSERS, EQUIPMENT, ETC., IF SHOWN DIFFERENTLY FROM EACH OTHER SHALL BE DETERMINED BY THE ARCHITECT.

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SHEET TITLE

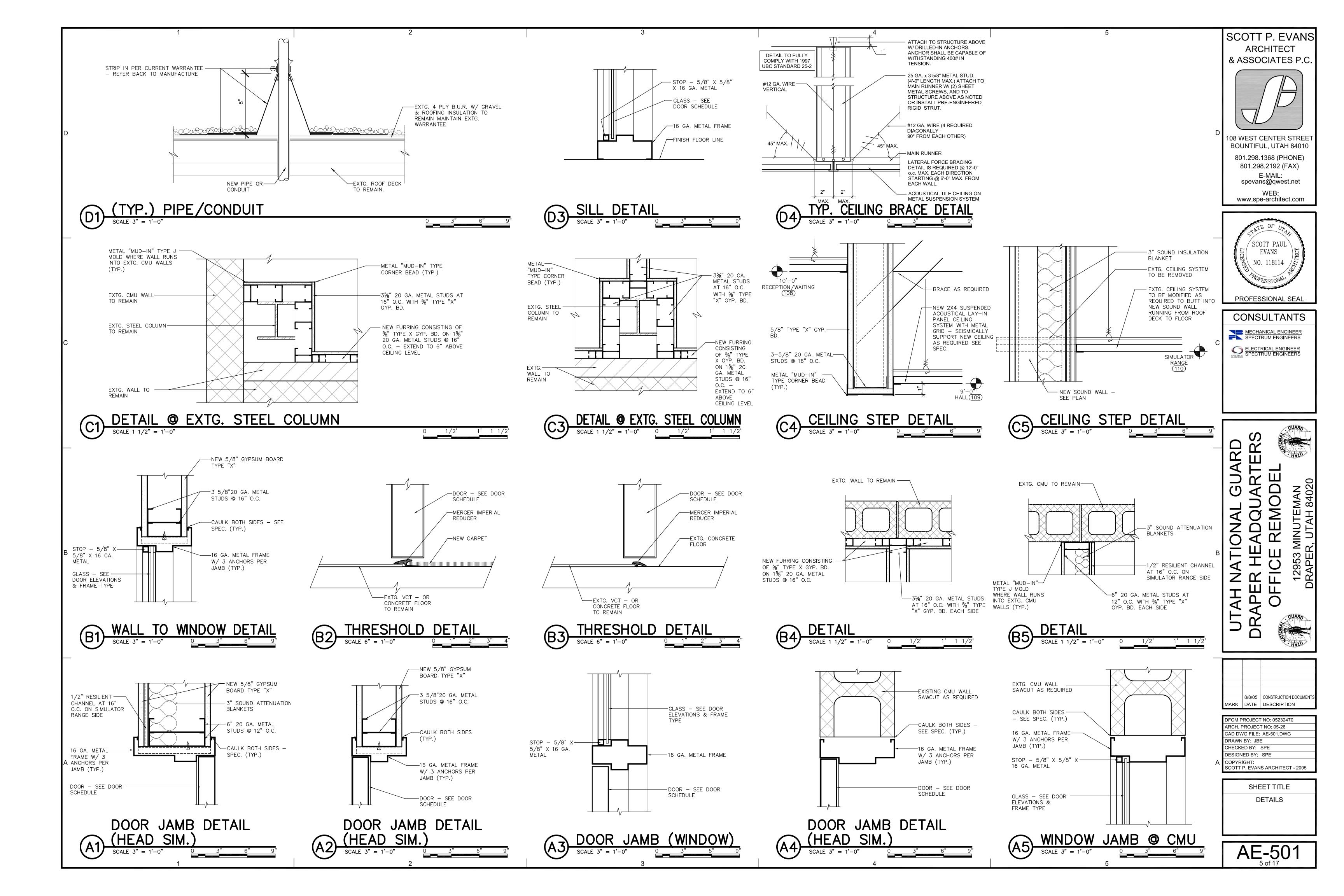
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DFCM PROJECT NO: 05232470 ARCH. PROJECT NO: 05-26 CAD DWG FILE: AE-102.DWG

REFLECTED CEILING PLAN & KEYED NOTES

8/8/05 | CONSTRUCTION DOCUMENTS

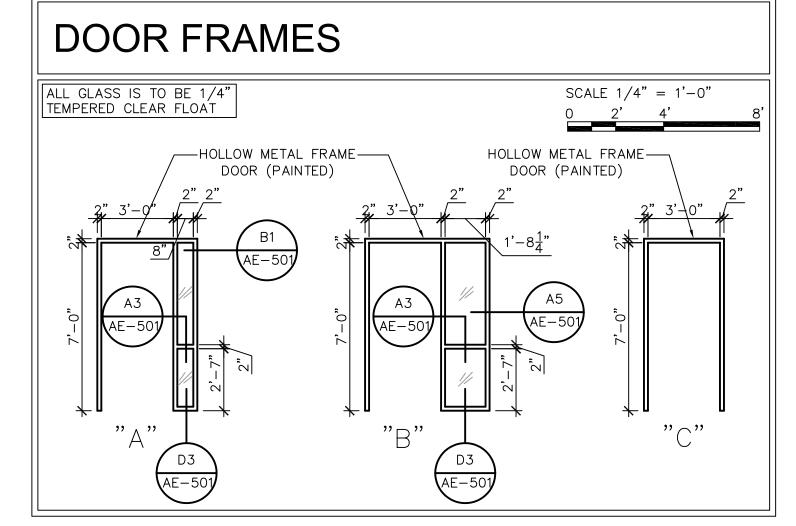
AE-102

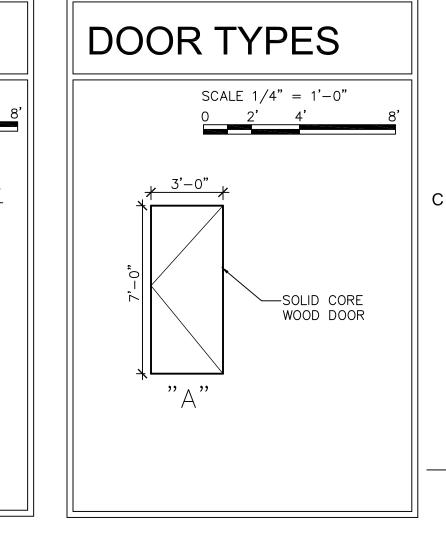


ROOM FINISH SCHEDULE

							WA	LLS								
	ROOM	FLOOR	BASE	NOF	RTH	EA	AST	SO	UTH	WE	ST		CEILING		REMARKS	
NUMBE	R NAME			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT		
101	Office	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
102	Office	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
103	Office	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
104	Storage	VCT	Rubber	Gyp. Bd.	Paint	Extg. CMU	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
105	Reception/Waiting	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	10'-0"		
106	Office	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
107	Office	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
108	Conference	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"		
109	Hall	Carpet	Rubber	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	Open	None	2x4 Susp. Panel	None	9'-0"		
110	Simulator Range	Extg. Concrete	Rubber on North only	Gyp. Bd.	Paint	Extg.	Extg.	Extg.	Extg.	Extg.	Extg.	Extg.			Paint wall around door #109	
_ 111	Elec.	VCT	Rubber	Gyp. Bd.	Paint	Extg. CMU	Paint	Gyp. Bd.	Paint	Gyp. Bd.	Paint	2x4 Susp. Panel	None	9'-0"	Paint wall around door #110	

		DC	OOR SCHEDULE * FIELD VERIFY ALL DIMENSIONS *												
	MARK	DOOF	OOR FRAME/OPENING SIGNA										SIGNAGE	WR	REMARKS
	₩	SIZE WIDTH	HGT THK	PE MATERIAL	LABEL	FINISH	TYPE	MATERIAL	HEAD DETAIL	JAMB(R) DETAIL	JAMB(L) DETAIL	THRESHOLD DETAIL		HD	
c [101	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	В	Hollow Metal	A4/AE-501	A3/AE-501	A4/AE-501	B2/AE-501		H-1	Frame to match wall thickness
	102	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A3/AE-501	A2/AE-501	None		H-2	
	103	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A2/AE-501	A3/AE-501	None		H-2	
	104	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A3/AE-501	A3/AE-501	None		H-2	
	105	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A3/AE-501	A2/AE-501	None		H-2	
	106	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A2/AE-501	A3/AE-501	None		H-2	
	107	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	A	Hollow Metal	A2/AE-501	A3/AE-501	A2/AE-501	None		H-3	
	108	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	С	Hollow Metal	A2/AE-501	A2/AE-501	A2/AE-501	None		H-3	
	109	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	С	Hollow Metal	A4/AE-501	A4/AE-501	A4/AE-501	B3/AE-501		H-1	Frame to match wall thickness
[110	3'-0"	7'-0" 1-3/4" A	SC Wood	None	Transparent	С	Hollow Metal	A4/AE-501	A4/AE-501	A4/AE-501	B3/AE-501		H-1	Frame to match wall thickness

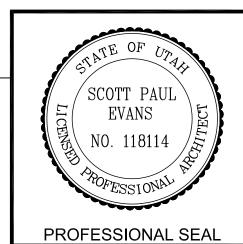




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DFCM PROJECT NO: 05232470

ARCH. PROJECT NO: 05-26

CAD DWG FILE: AE-601.DWG

DRAWN BY: JBE

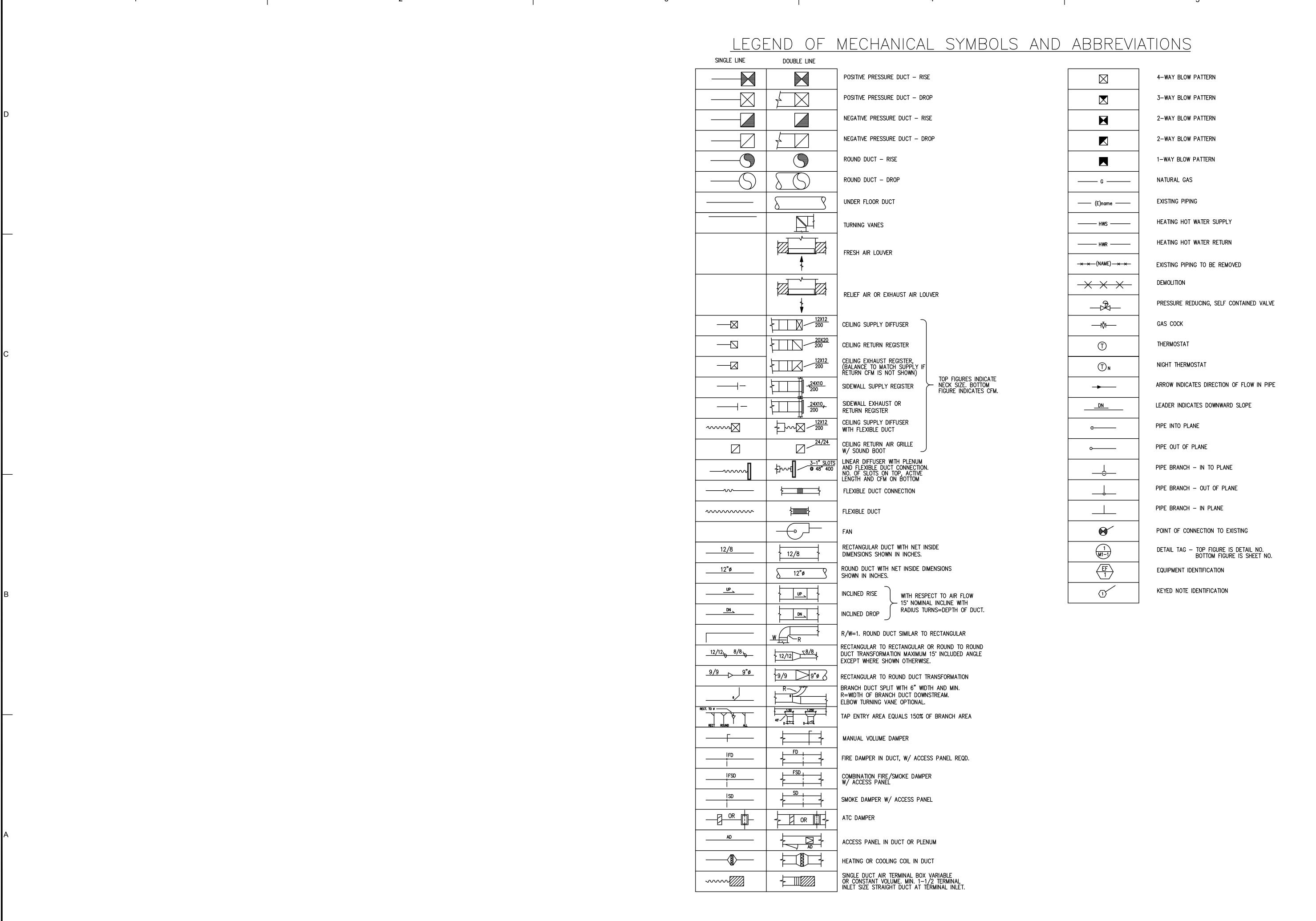
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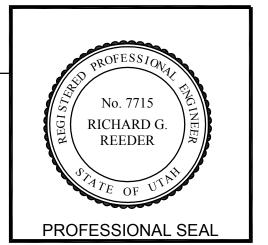
AE-601



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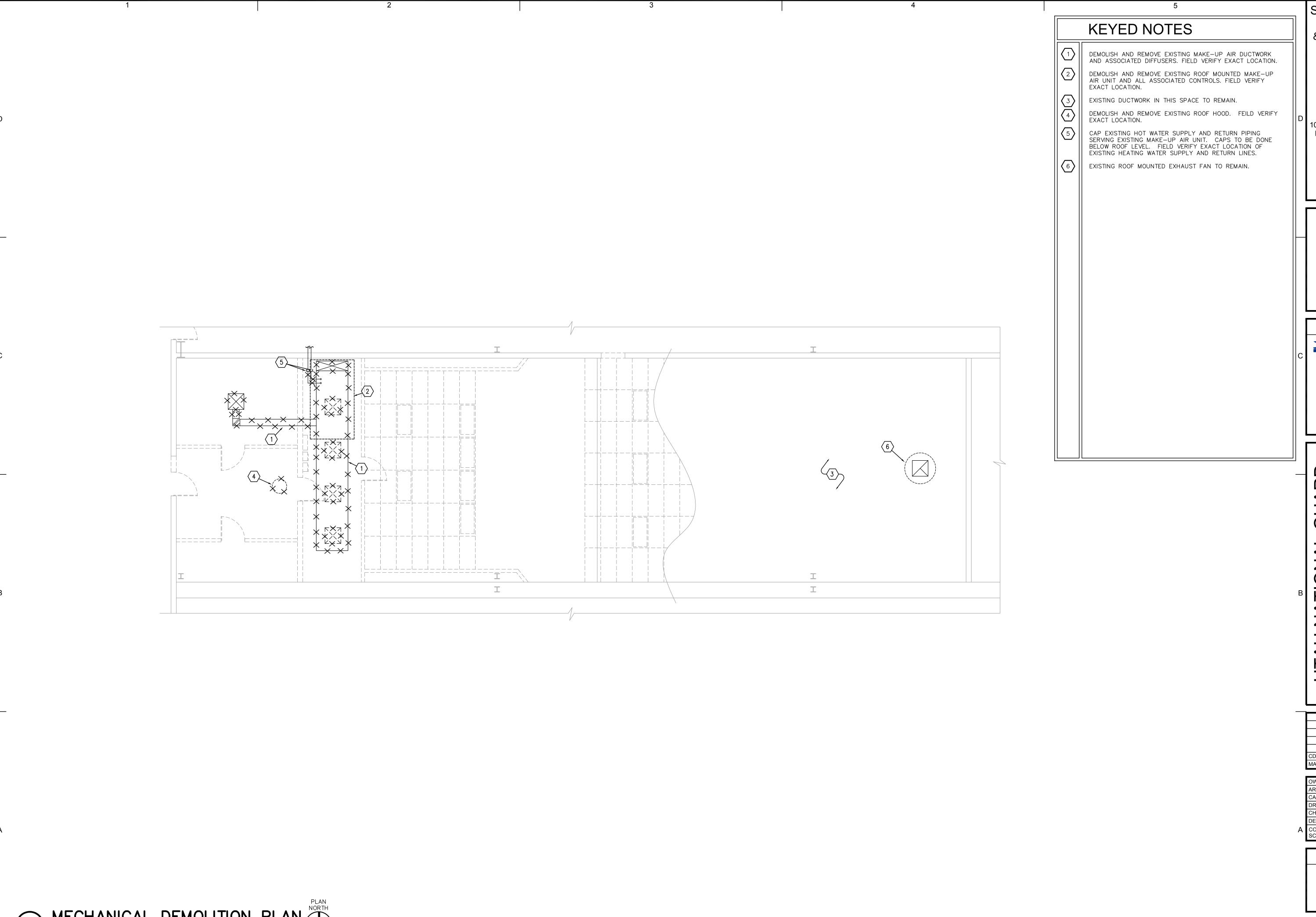
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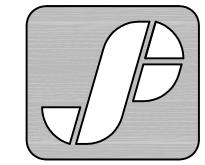
SHEET TITLE

MECHANICAL
SYMBOLS AND LEGENDS

MI-000



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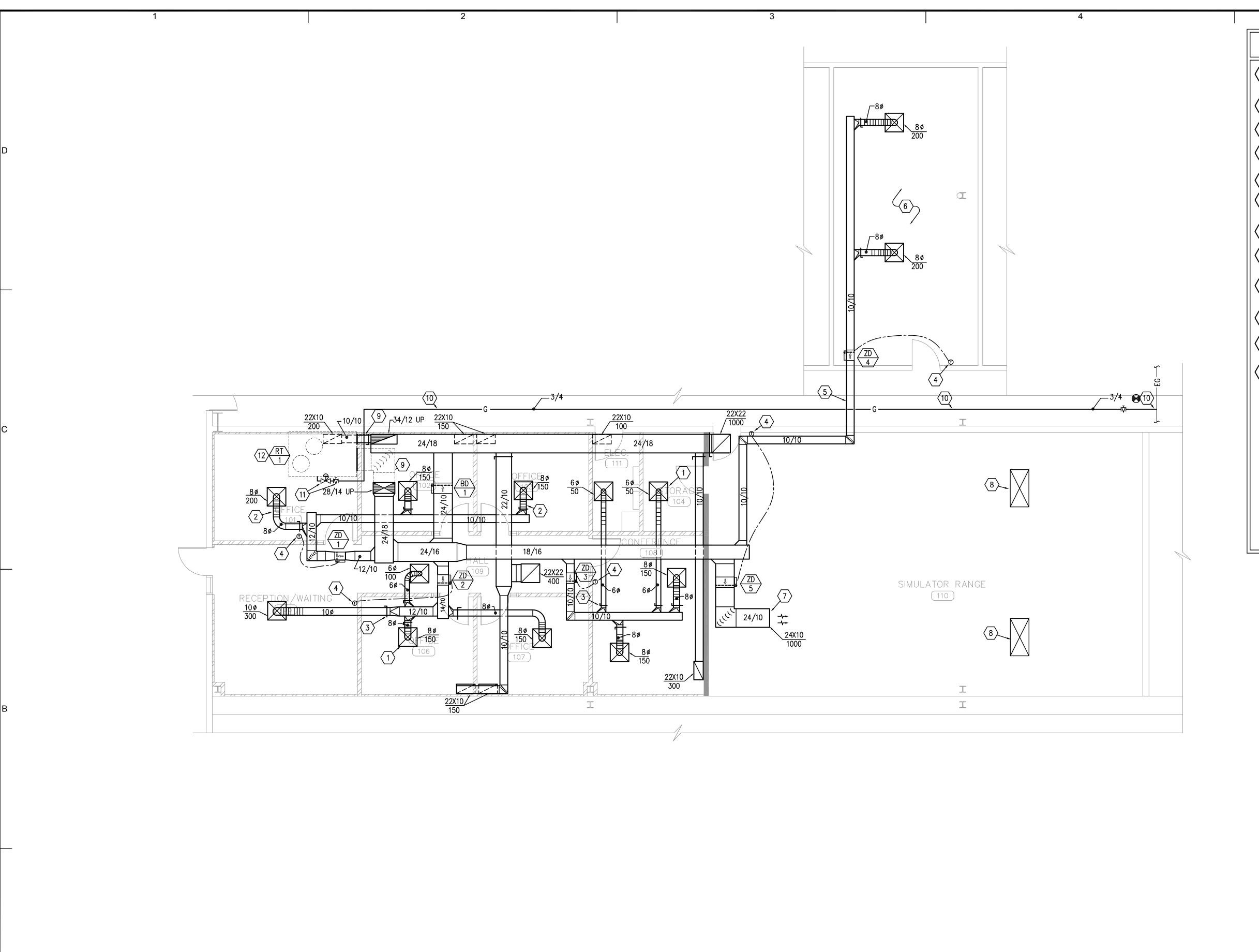
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> SHEET TITLE MECHANICAL DEMOLITION PLAN

MD-101 8 OF 17



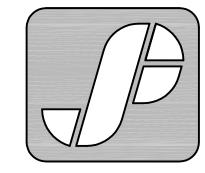
KEYED NOTES

- COORDINATE LOCATION OF ALL DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN, TYPICAL.
- 2 MAXIMUM OF 6'-0" FLEXIBLE DUCTWORK TO DIFFUSER, TYPICAL.
- PROVIDE MANUAL VOLUME DAMPER ON ALL BRANCH LINES TO DIFFUSERS, TYPICAL.
 - COORDINATE LOCATION OF THERMOSTAT WITH ARCHITECTURAL, TYPICAL.
- EXTEND DUCTWORK ACROSS CORRIDOR TO SERVE OFFICE SPACE.
- FIELD VERIFY REFLECTED CEILING PLAN IN EXISTING OFFICE SPACE. COORDINATE LOCATION OF NEW DIFFUSERS WITH EXISTING CEILING.
- TERMINATE DUCTWORK ABOVE CEILING. SUPPLY AIR TO BLOW INTO CEILING PLENUM.
- REMOVE CEILING PANEL AT LOCATIONS SHOWN TO ALLOW SUPPLY AIR FROM PLENUM TO ENTER SPACE. COORDINATE WITH LAYOUT OF EXISTING CEILING IN SIMULATOR RANGE.
- DUCTWORK TO BE RUN ON ROOF FROM HORIZONTAL DISCHARGE OPENINGS ON ROOFTOP UNIT TO VERTICAL DROPS DOWN INTO SPACE.
- NEW GAS SERVICE LINE TO BE RUN ON ROOF. CONNECT NEW GAS LINE TO EXISTING GAS SERVICE LOCATED ON ROOF.

 PROVIDE PRESSURE REGULATOR AND GAS COCK FOR NEW ROOFTOP UNIT TO PROVIDE 4 OZ PRESSURE TO MECHANICAL
- MOUNT NEW ROOFTOP UNIT ON 14" HIGH FACTORY ROOFCURB. COORDINATE LOCATION OF NEW EQUIPMENT WITH EXISTING EQUIPMENT LOCATED ON ROOF.

EQUIPMENT.

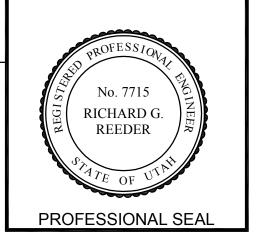
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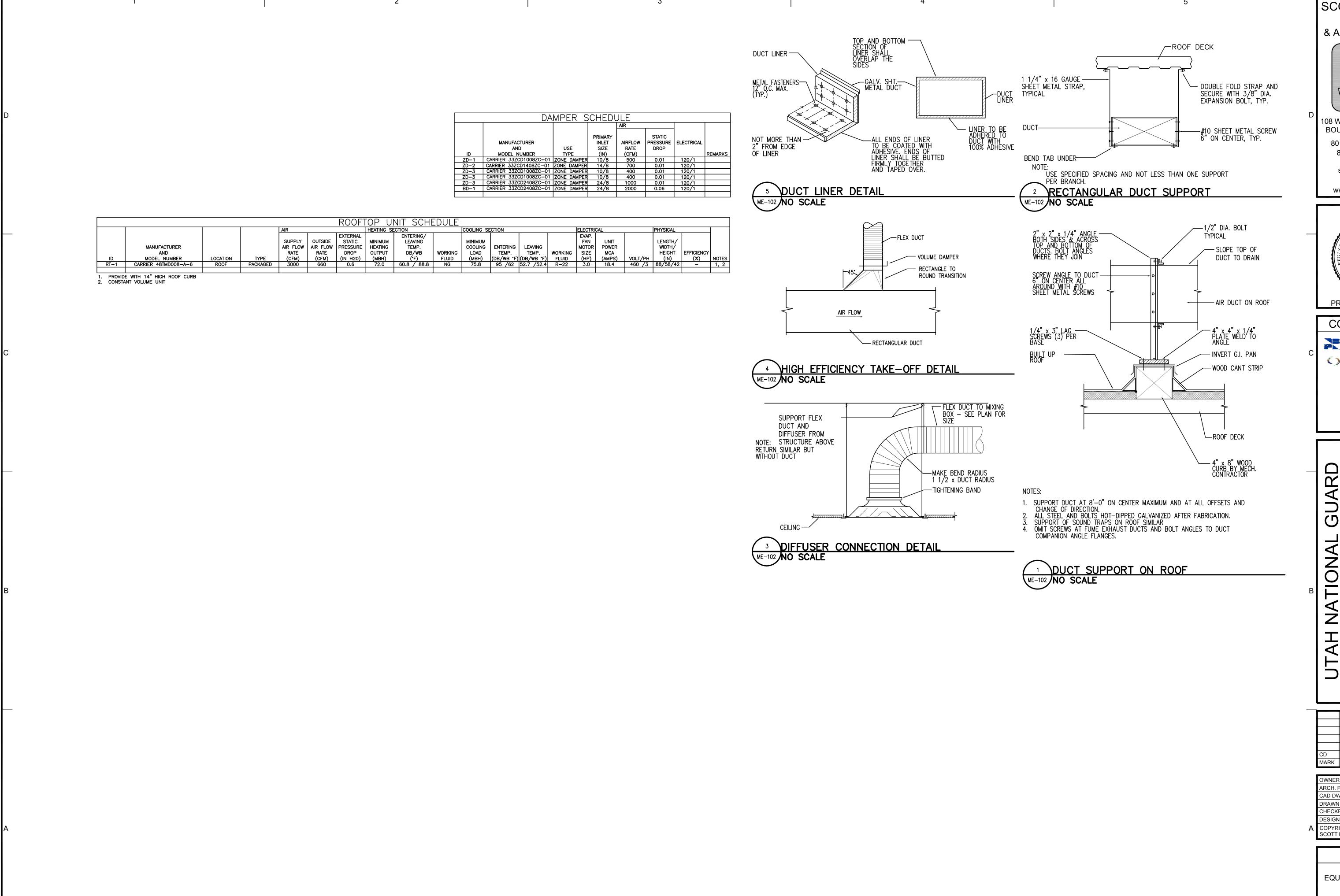
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SHEET TITLE

MECHANICAL PLAN

ME-101

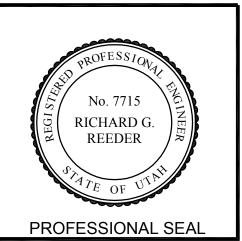


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ARCH. PROJECT NO: 05-26
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SHEET TITLE

MECHANICAL
EQUIPMENT SCHEDULES
AND DETAILS

ME-102

CONDUIT SCHEDULE SCHEDULE NUMBER -SUBSCRIPT (NOTE 5) CONDUCTOR(NOTE 1) QTY SIZE GR CONDUIT IG SE NOTES SIZE 20 .75 2 | 12 | 12 | 12 | 8 | 2 20 .75 3 | 12 | 12 | 12 | 8 | 2,3 4 | 12 | 12 | 12 | 8 | 2,3 20 .75 [4] | 30 .75 2 | 10 | 10 | 10 | 8 | 2 30 .75 3 | 10 | 10 | 10 | 8 |2 [6] 30 | 4 | 10 | 10 | 10 | 8 |2 .75 2 | 8 | 10 | 8 | 6 | 2 40 3 | 8 | 10 | 8 | 6 | 2 40 4 | 8 | 10 | 8 | 6 |2 40 55 2 | 6 | 10 | 8 | 4 | 2 55 | 6 | 10 | 8 | 4 | 2 55 | 4 | 6 | 10 | 8 | 4 |2 1.25 70 2 | 4 | 8 | 4 | 2 |2 3 | 4 | 8 | 4 | 2 | 2 70 1.25 4 | 4 | 8 | 4 | 2 | 2 70 1.25 2 | 3 | 8 | 3 | 2 |2 85 1.25 85 1.25 3 | 3 | 8 | 3 | 2 | 2 85 1.25 4 | 3 | 8 | 3 | 2 | 2 95 1.25 | 2 | 8 | 2 | 2 |2 95 1.50 4 | 2 | 8 | 2 | 2 | 2 130 1.50 3 | 1 | 6 | 2 | 2 | 2 130 1.50 4 | 1 | 6 | 2 | 2 | 2 150 3 | 1/0 | 6 | 2 | 1/0 | 2 4 | 1/0 | 6 | 2 | 1/0 | 2 150 2 175 3 | 2/0 | 6 | 2 | 2/0 | 2 2 175 4 | 2/0 | 6 | 2 | 2/0 | 2 2 [27] | 200 3 | 3/0 | 6 | 2 | 2/0 | 2 4 | 3/0 | 6 | 2 | 2/0 | 2 200 2.50 230 2.50 3 | 4/0 | 4 | 2 | 2/0 | 2 230 4 | 4/0 | 4 | 2 | 2/0 | 2 2.50 255 3 | 250 | 4 | 1 | 2/0 | 2 2.50 255 | 4 | 250 | 4 | 1 | 2/0 |2 2.50 310 3 | 350 | 3 | 1/0 | 3/0 | 2 3 310 3 4 | 350 | 3 | 1/0 | 3/0 | 2 3 | 500 | 3 | 3/0 | 3/0 | 2 380 3.50 4 | 500 | 3 | 3/0 | 3/0 | 2 380 4 400 2 EA 2 3 | 3/0 | 3 | 3/0 | 3/0 | 2 400 | 2 EA 2.50 | 4 | 3/0 | 3 | 3/0 | 3/0 | 2 510 | 2 EA 2.50 3 | 250 | 1 | 4/0 | 3/0 | 2 510 | 2 EA 3 | 4 | 250 | 1 | 4/0 | 3/0 | 2 [41] | 620 | 2 EA 3 | 3 | 350 | 1/0 | 4/0 | 3/0 | 2,4 620 2 EA 3 4 350 1/0 4/0 3/0 2,4 760 | 2 EA 3.50 | 3 | 500 | 1/0 | 4/0 | 3/0 | 2,4 760 2 EA 4 | 4 | 500 | 1/0 | 4/0 | 3/0 | 2,4 855 3 EA 3 3 | 300 | 2/0 | 4/0 | 3/0 |2,4 46 855 3 EA 3 4 300 2/0 4/0 3/0 2,4 | 1000 | 3 EA 3.50 | 3 | 400 | 2/0 | 4/0 | 3/0 | 4 1000 | 3 EA 3.50 | 4 | 400 | 2/0 | 4/0 | 3/0 | 4 1140 | 3 EA 4 | 3 | 500 | 3/0 | 4/0 | 3/0 | 4 1140 | 3 EA 4 | 4 | 500 | 3/0 | 4/0 | 3/0 | 4 1240 4 EA 3 | 3 | 350 | 3/0 | 4/0 | 3/0 |4 | 1675 | 5 EA 3.50 | 4 | 400 | 4/0 | 4/0 | 4/0 | 4 [54] | 2010 | 6 EA 3.50 | 4 | 400 | 250 | 250 | 250 | 4 2660 4 | 500 | 350 | 350 | 350 | 4 7 EA 4 4 | 500 | 500 | 500 | 500 | 4 3040 l 8 EA 4 4180 | 4 | 500 | 500 | 500 | 500 |4 11 EA 4 5 EA 4

CONDUCTOR AND

CONDUCTOR AND CONDUIT SCHEDULE NOTES

5

10 EA 4

CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.

6

- PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
- PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
- GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
- WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
- 6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

	2 CVMDOL LECEND
CVAIDOL	SYMBOL LEGEND
SYMBOL	DESCRIPTION E AND LINE SYMBOLS
INCI LINCINC	AND LINE STMBOLS
A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
100	ROOM OR SPACE NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
⟨CU−1⟩	EQUIPMENT INDICATOR.
 \-	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
~	BREAK, ROUND.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
WIRING ME	ETHODS
	WIRING.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
1 A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
	CABLE TRAY.
1	EARTH GROUND (ONE-LINE DIAGRAM).
LIGHTING	REFER TO FIXTURE SCHEDULE FOR SYMBOLS)
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
LIGHTING	LCONTROL
*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, CEILING.
SP	OCCUPANCY SENSOR SWITCH PACK.
STRUCTUR	LRED_CABLING
4	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/DATA COMMUNICATION.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
WIRING DE	VICES
#	RECEPTACLE, DUPLEX: NEMA 5-20R.
₩ _A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
Ф	SWITCH, DIMMER.
X	SWITCH SINCLE DOLE ("" INDICATES FIVELIBES

SWITCH, SINGLE POLE ("x" INDICATES FIXTURES

ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT

FIRE ALARM

DETECTOR, SMOKE.

INDICATES CANDELA RATING.

SYMBOL LEGEND SYMBOL DESCRIPTION ELECTRICAL POWER AND DISTRIBUTION DISCONNECT, FUSED (ONE-LINE DIAGRAM). TRANSFORMER (ONE-LINE DIAGRAM). 225/3 PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND "1H" PHASE AS SHOWN (ONE-LINE DIAGRAM). 225/3 PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND "1H" PHASE AS SHOWN (ONE-LINE DIAGRAM). 225/3 "1H" PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM). $\frac{60}{3}$ DISCONNECT SWITCH, FUSED. DISCONNECT SWITCH, UNFUSED. STARTER, COMBINATION WITH DISCONNECT SWITCH. **∑**[⊢] STARTER OR MOTOR CONTROLLER. \blacksquare PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION. DISTRIBUTION PANEL OR SWITCHBOARD. LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE. SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.

TRANSFORMER: NUMBER INDICATES kVA.

75

ABBREVIATIONS

	/\DDI\L \	17 \ 1 1 \	0110
	NOTE: ALL ABBREVIATI	ONS MAY	NOT BE USED.
45	011101 F D01 F	LVAD	IXII OVOLT AMPEDE
1P 1PH	SINGLE POLE SINGLE-PHASE	kVAR	KILOVOLT AMPERE REACTIVE
1WAY	ONE-WAY	kW	KILOWATT
2/C	TWO-CONDUCTOR	kWh	KILOWATT HOUR
2WAY	TWO-WAY	LED LFMC	LIGHT EMITTING DIODE LIQUID TIGHT FLEXIBLE
3/C 3PH	THREE-CONDUCTOR THREE-PHASE	LFMC	METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE
40UT	QUADRUPLE RECEPTACLE		NONMETALLIC CONDUIT
4DDT	OUTLET	LPS LRA	LOW PRESSURE SODIUM LOCKED ROTOR AMPS
4PDT	FOUR-POLE DOUBLE THROW	LTG	LIGHTING
4PST	FOUR-POLE SINGLE	LV	LOW VOLTAGE
	THROW	MATV	MASTER ANTENNA
4W	FOUR-WIRE	MAX	TELEVISION SYSTEM MAXIMUM
4WAY AC	FOUR-WAY ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH	MCA	MINIMUM CIRCUIT AMPS
	DISABILITIES ACT	MCB	MAIN CIRCUIT BREAKER
ADJ AFF	ADJACENT ABOVE FINISHED FLOOR	MCC MCP	MOTOR CONTROL CENTER MOTOR CIRCUIT
AFG	ABOVE FINISHED GRADE	IVIOI	PROTECTION
AIC	AMPERE INTERRUPTING	MDP	MAIN DISTRIBUTION
A 1 1 1 1 A	CAPACITY	MG	PANEL MOTOR GENERATOR
ALUM AMP	ALUMINUM AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AR	AS REQUIRED	MLO	MAIN LUGS ONLY
ASC	AMPS SHORT CIRCUIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	NA	NOT APPLICABLE
AV	AUDIO VISUAL	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAGE	NEC	NATIONAL ELECTRICAL
RR XEMB	BUCK-BOOST TRANSFORMER	NEMA	CODE NATIONAL ELECTRICAL
CATV	COMMUNITY ANTENNA	INCIVIA	MANUFACTURERS
	TELEVISION		ASSOCIATION
CB	CIRCUIT BREAKER	NFC	NATIONAL FIRE CODE NATIONAL FIRE
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NFPA	PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT	NIC	NOT IN CONTRACT
	TELEVISION	NL	NIGHT LIGHT
CFBA	CUSTOM FINISH AS	NO NTC	NORMALLY OPEN
CF/CI	SELECTED BY ARCHITECT CONTRACTOR FURNISHED/	NTS OC	NOT TO SCALE ON CENTER
	CONTRACTOR INSTALLED	OCP	OVER CURRENT
CF/OI	CONTRACTOR FURNISHED/	05 /01	PROTECTION
CKT	OWNER INSTALLED CIRCUIT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CM	CONSTRUCTION MANAGER	OF/OI	OWNER FURNISHED/
CND	CONDUIT	·	OWNER INSTALLED
CO	CONVENIENCE OUTLET	OFP	OBTAIN FROM PLANS
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OH DR	OVERHEAD (COILING) DOOR
CP	CONTROL PANEL	OL	OVERLOAD
CT	CURRENT TRANSFORMER	PB	PUSHBUTTON
CTV CU	CABLE TELEVISION COPPER	PF PH	POWER FACTOR PHASE
dBA	UNIT OF SOUND LEVEL	PNL	PANEL
DPDT	DOUBLE POLE DOUBLE	PT	POTENTIAL TRANSFORMER
00	THROW	QTY R	QUANTITY REMOVE
DS EA	DISCONNECT SWITCH EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC	RNC	RIGID NONMETALLIC
ENT	TUBING ELECTRICAL NONMETALLIC	RPM	CONDUIT REVOLUTIONS PER MINUTE
LINI	TUBING	RR	REMOVE AND RELOCATE
EP0	EMERGENCY POWER OFF	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
EXIST FA	EXISTING FIRE ALARM	SF	SQUARE FOOT (FEET)
FCP	FIRE ALARM CONTROL	SFBA	STANDARD FINISH AS
El A	PANEL FULL LOAD AMPS	SPDT	SELECTED BY ARCHITECT SINGLE POLE, DOUBLE
FLA FMC	FULL LOAD AMPS FLEXIBLE METALCONDUIT	ו ע וכ	THROW
FOB	FREIGHT ON BOARD	SPEC	SPECIFICATION
FVNR	FULL VOLTAGE	SPST	SINGLE POLE, SINGLE
FVR	NON-REVERSING FULL VOLTAGE REVERSING	s/s	THROW START/STOP
G	GROUND	ST	SINGLE THROW
GEN	GENERATOR	SWBD	SWITCHBOARD
GFCI	GROUND FAULT CIRCUIT	SWGR TL	SWITCHGEAR TWIST LOCK
GFP	INTERRUPTER GROUND FAULT	TP	TELEPHONE POLE
011	PROTECTION	TP	TWISTED PAIR
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL
HID	HIGH INTENSITY DISCHARGE	TV	BOARD TELEVISION
HOA	HAND-OFF-AUTOMATIC	TVSS	TRANSIENT VOLTAGE
HP	HORSE POWER		SURGE SUPPRESSER
HPF	HIGH POWER FACTOR	TYP	TYPICAL
HPS HV	HIGH PRESSURE SODIUM HIGH VOLTAGE	UF UGND	UNDERFLOOR UNDERGROUND
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER
G	ISOLATED GROUND		SUPPLY
MC	INTERMEDIATE METAL	V VA	VOLTS VOLT AMPERE
N/IS	CONDUIT INSULATED/ISOLATED	VA VFC	VOLT AMPERE VARIABLE FREQUENCY
/0	INPUT/OUTPUT		CONTROLLER
Ŕ	INFRARED	W/	WITH
KV KVA	KILOVOLT AMPERE	W/O WP	WITHOUT WEATHERPROOF

ELECTRICAL SHEET INDEX

KILOVOLT AMPERE

TRANSFORMER

SHEET TITLE					
SYMBOL LEGEND/SHEET INDEX					
REFERENCE PLANS					
DEMOLITION & FIRE ALARM PLANS					
POWER & LIGHTING PLANS					
DETAILS					
DETAILS					
SCHEDULES					

Gl	ENE	RA	L	EL	EC	TR	ICA	۱L	NC	T	ES
1.	FAMILIA ANY QU DISCON DISCRE OR FUN ARCHIT ISSUAN WHERE MOST S	CATION ARIZE TH JESTION: TINUED PANCIES ACTION (ECT/EN(CE OF DISCREIS STRINGEN () THAT CED.	HEMSE S, MIS PROD BETY OF TH GINEEF THE F PANCI NT (W	LVES VOUNDER UCTS, WEEN E EQU R IN WINAL A ES OR HICH I	WITH TI RSTAND CATAL THE ECUIPMEN' WRITING ADDEND MULTI S GENI	HE DR DINGS, OG NU DUIPME T, ETC FOR DUM AI PLE IN	AWINGS CONFL JMBER NT SUI , SHAL CLARIFI ND BID NTERPR Y RECO	S AND ICTS, E DISCRE PPLIED L BE S ICATION DING O ETATION OGNIZED	SPECIFIONELETION SPECIFICATION TO SUBMITT IN PRIORE THE NS OCC	CATIONS, S, HE IN TO PROCUR, HE M	ONS. NTENT TO THE JECT. THE OST
2.	EQUIPM INCORP INSTAL	FURNIS ENT AS ORATED LER AND ED, AND	INDIC INTO COS	ATED THE TS FO	IN THE WORK. R RECE	CONT THES IVING,	TRACT SE ITEM , HAND	DOCUM IS ARE LING, S	ENTS T ASSIGN TORAGI	O BE NED E, IF	TO THE
		THE IN: LER FUR								AS I	F THE
	FURNIS WILL IN ARE DA WITH T REPLAC MANUF	THE OV HED ITEI ISPECT I AMAGED, HE TRAN CEMENT. ACTUREF ACTUREF	MS FR DELIVE DEFE NSPOR THE R'S FII	REIGHT RIES I CTIVE RT CON OWNE ELD SI	ON BO FOR DA OR MI MPANY ER WILL ERVICES	DARD AMAGE SSING, AND ALSO S, ANI	JOB SI . IF C , DOCU THE OV) ARRA) THE	TE AND OWNER MENT D WNER W NGE FO DELIVER) THE I FURNISI DAMAGE ILL ARI DR RY OF	NSTA HED D IT RANG	LLER ITEMS EMS
	_	THE INC	CTALL	בם וכ	DECDO	NICIDI I	E EOB	DESIGN	ATINIC	TUE	

- C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. OF HIS OPERATIONS.
- AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

SCOTT P. EVANS ARCHITECT



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DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT

- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL,
- 4. SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT

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REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN
"DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER

PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC

IS INTENDED.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS,

A A MAI \mathbf{Z} < Z H

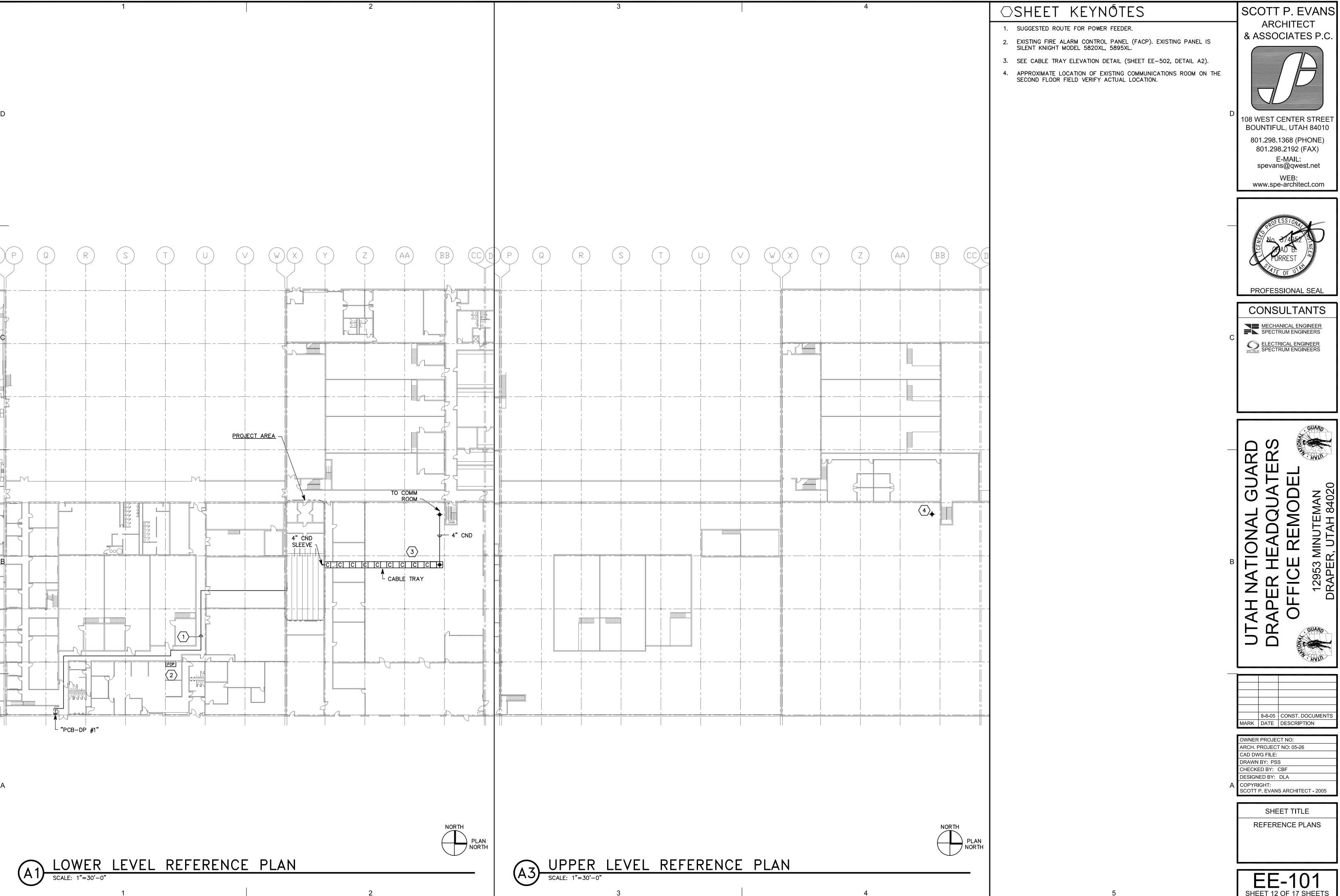
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SHEET TITLE

SYMBOL LEGEND/ SHEET INDEX

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EADQUATE REMODEL

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> SHEET TITLE REFERENCE PLANS

GENERAL SHEET NOTES

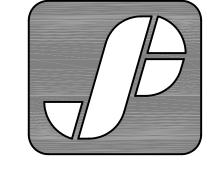
 COORDINATE REQUIREMENTS FOR EXTENSION OF FIRE ALARM LOOPS WITH DAN HOWARD WITH UTAH NATIONAL GUARD (244-4294) AND WITH SCOTT SCHRIBER WITH 'AAA' (544-7345).

○SHEET KEYNOTES

- 1. REMOVE ALL ELECTRICAL EQUIPMENT IN THIS AREA UNLESS OTHERWISE NOTED.
- CONNECT TO EXISTING FIRE ALARM SYSTEM LOOP. ADD BATTERIES AS REQUIRED TO SUPPORT THE NEW DEVICES. MATCH NEW DEVICES TO EXISTING SYSTEM.
- REMOVE ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH MECHANICAL ROOF-MOUNTED EQUIPMENT.
- 4. EXISTING LIGHTS AND DEVICES IN THIS AREA TO REMAIN. SWITCHING TO LIGHTS TO BE REMOVED AND REPLACED AS SHOWN ON SHEET EE-103. LIGHTS AND OUTLET SHALL REMAIN CONNECTED TO CIRCUITS CURRENTLY SERVING THEM.

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GUARO

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SHEET TITLE
DEMOLITION &

FIRE ALARM PLANS

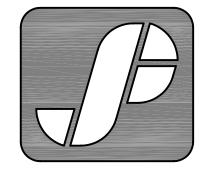
EE-102
SHEET 13 OF 17 SHEETS

SHEET KEYNÓTES

- 1. PROVIDE NEW SWITCHES TO CONTROL EXISTING LIGHTING IN "SIMULATOR RANGE 110". SWITCH LIGHTS IN BANKS AS INDICATED.
- PROVIDE CONVENIENCE OUTLET FOR EL-1 FIXTURE. LOCATE 6-INCHES BELOW CEILING.
- PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING FOR ZONE DAMPERS. DAMPERS FURNISHED BY DIV 15. FINAL ELECTRICAL CONNECTION BY DIV 16. COORDINATE EXACT LOCATION WITH MECHANICAL.
- 4. CONNECT EXIT SIGN TO UNSWITCHED LEG OF CIRCUIT.



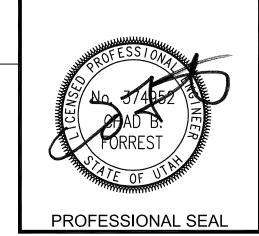
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SHEET TITLE

POWER &
LIGHTING PLANS

EE-103

File name: P:\2005\20050462\1Drawings\Sheet\62—EE-103.dwg Last Plotted: 08/25/2005 @ 11:

RECESSED TROFFER -

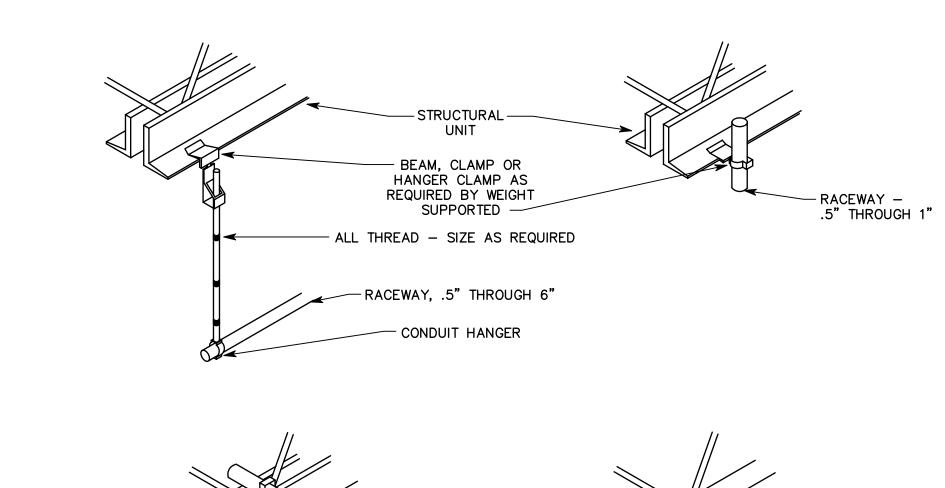
RECESSED FIXTURE MOUNTING DETAIL

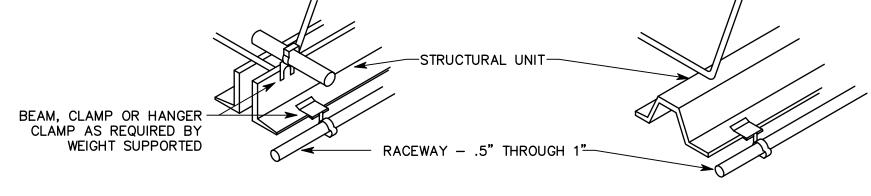
ACCESSIBLE CEILING

LAY-IN CEILING GRID SYSTEM

EXISTING DISTRIBUTION PANEL "PCB-DP#1" 277/480V 3ø, 4W 200/3 $\langle 1 \rangle \square$ RK5-200 \triangle DRY-TYPE K-4 RATED XFMR PER NEC Y 120V 3¢ 4W

NOTE: TIE WIRE SHALL NOT BE USED AS A COMPONENT OF ANY RACEWAY HANGER





TYPICAL RACEWAY SUPPORT METHODS DETAIL

○SHEET KEYNÓTES

TELEPHONE/DATA EQUIPMENT/CABLE LIST

-BAR STRAPS

OUTLET BOX-

MANUFACTURERS

COMMSCOPE CAT 5E BLUE ('X' INDICATES QUANTITY)

COMMSCOPE CAT 5E YELLOW ('X' INDICATES QUANTITY)

SIEMON CT-C5-C5-02 (ANGLED JACK)

SIEMON CT2-FP-02 (FACEPLATE)

- AS REQUIRED FOR TYPE OF CONSTRUCTION.

PROVIDE CONDUIT SUPPORTS IN

SPACING REQUIREMENTS FOR

TYPE OF RACEWAY REQUIRED.

-BAR STRAPS

ACCORDANCE WITH NEC

SIEMON HD5-89D-12

M183-B2 (VAR)

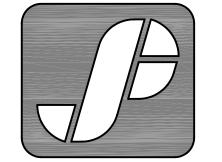
M183-B2 (VAR)

M187-B1 (VAR)

- 1. EXISTING 200AMP FUSED SWITCH. PROVIDE NEW FUSES.
- FIELD VERIFY EXISTING EQUIPMENT IN COMM ROOM AND COORDINATE WITH UTAH NATIONAL GUARD NEW EQUIPMENT REQUIRED FOR EXPANSION OF SERVICE WITH MIKE HANSEN (523-4118). PRIOR TO BID.

TELECOMMUNICATIONS CABLING - GENERAL NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH UTNG STANDARD UT-GG-C (2003).
- 2. ALL WORK SHALL BE COORDINATED WITH MIKE HANSEN (UTNG).



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> SHEET TITLE **DETAILS**



GENERAL NOTES

2. PLASTER RINGS NOT SHOWN.

DRAWINGS.

1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.

A MINIMUM OF 24" HORIZONTAL DISTANCE.

LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP

SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY

PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

4. IN ACCORDANCE WITH IBC 711.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD

5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR

1" CONDUIT — STUB INTO **ACCESSIBLE** CEILING WITH PULL VOICE/DATA OUŤLET PROVIDE 4" SQUARE (2.125" DEEP) BOX WITH SINGLE GANG MUD RING AND COVER PLATE. FLOOR LINE VOICE/DATA RACEWAY RISER DIAGRAM TYPICAL VOICE/DATA DUPLEX OUTLET NEW (1 FULL NEW (1 FULL PATCH SPARE PATCH SPARE PANEL BACKBOARD) (VOICE) (LAN) (1-VOICE, 1-LAN)

TELECOMMUNICATIONS CABLING RISER DIAGRAM

SYMBOL ITEM DESCRIPTION

PATCH PANEL

PPL

VOICE CABLING, CATEGORY 5E

DATA CABLING, CATEGORY 5E

BLUE METAL BACKBOARD (VOICE)

FULL SPOOL BOARDS

BAR STRAPS

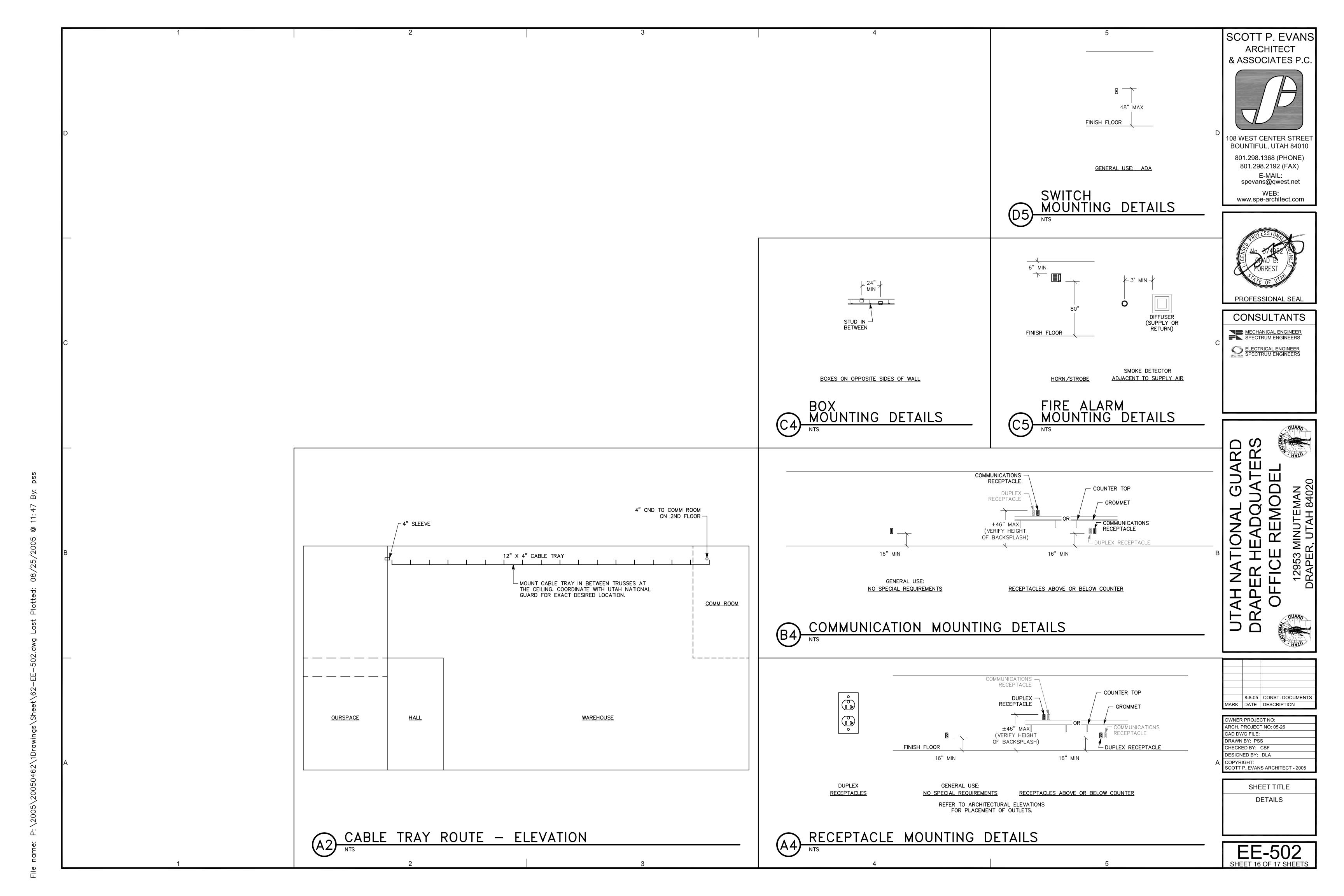
YELLOW METAL BACKBOARD (DATA)

WORK STATION OUTLET (1-LAN, 1-VOICE)

— TYPICAL

WALL OUTLETS

OUTLET BOX



"1H1" PANEL PANEL SIZE & TYPE: VOLTS/PHASE/WIRE: MAIN SIZE & TYPE: LOCATION: CABINET: NOTES: 277/480 V. 3 PH 4 WIRE 22" W x 6" D, BOLT-ON 200 AMPERE MAIN LUG SIMULATOR RANGE SURFACE ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, SUBFEED LUGS CKT | OCP | LOAD (kVA) | DESCRIPTION LOAD (kVA) OCP CKT DESCRIPTION LTG CO PWR AMP POLE NO NO AMP POLE LTG CO PWR 0.1 2.2 1.0 150 3 2
 0.0
 3.3

 3.0
 5.5

 3.2
 1 | 20 | 1 | | TRANSFORMER - T1 3 20 1 2.4 0.0 | 2.2 | 1.0 | - | - | 4 OFFICE LIGHTING 5 | 20 | 1 | SPARE 0.0 | 2.4 | 2.4 | 0.0 | 1.4 | 1.0 | - | - | 6 7 20 1 0.0 5.1 5.1 SPARE ROOFTOP UNIT - RT-1 5.1 40 3 8 9 | 20 | 1 | SPARE 0.0 5.1 | 5.1 | - | - | 10 _ 11 | 20 | 1 | **SPARE** 0.0 | | 5.1 | 5.1 | 5.1 | - | - | 12 13 20 1
 0.0
 0.0
 0.0

 0.0
 0.0
 0.0
 20 1 14 SPARE SPARE 15 | 20 | 1 | SPARE SPARE 20 | 1 | 16
 0.0
 0.0
 0.0

 0.0
 0.0
 0.0
 | 17 | 20 | 1 | SPARE SPARE 20 | 1 | 18 19 20 1 SPARE SPARE 20 1 20 21 | 20 | 1 | 0.0 0.0 SPARE 0.0 SPARE 20 | 1 | 22 23 | 20 | 1 | SPARE 0.0 0.0 | 0.0 | SPARE 20 | 1 | 24
 0.0
 0.0
 0.0

 0.0
 0.0
 0.0
 25 20 1 SPARE SPARE 20 | 1 | 26 27 | 20 | 1 | SPARE SPARE 20 | 1 | 28
 0.0
 0.0
 0.0

 0.0
 0.0
 0.0
 29 | 20 | 1 | SPARE SPARE 20 1 30 31 | 20 | 1 | SPARE SPARE | 20 | 1 | 32 33 | 20 | 1 | SPARE 0.0 0.0 SPARE 20 | 1 | 34 0.0 0.0 35 | 20 | 1 | SPARE 0.0 SPARE 20 | 1 | 36 37 | 20 | 1 | 0.0 0.0 0.0 20 | 1 | 38 SPARE SPARE 39 | 20 | 1 | SPARE SPARE 0.0 | 0.0 | 20 | 1 | 40 41 | 20 | 1 | 0.0 0.0 0.0 20 | 1 | 42 SPARE SPARE TOTALS: CONNECTED kVA PER PHASE 8 11 8 CONNECTED TOTAL kVA 27 CONNECTED AMPS PER PHASE 30 38 27 CONNECTED AVERAGE AMPS PER PHASE 32 NEC DIVERSIFIED LOAD CALCULATIONS LIGHTING 2kVA @125% = 3 kVA ALL OTHER LOADS @100% = 18 kVA DIVERSIFIED TOTAL kVA = 27 RECEPTACLES 6kVA @100% = 6 kVA 25% OF LARGEST MOTOR = AVERAGE AMPS PER PHASE = 33 0 kVA REMAINDER OkVA @ 50% = 0 kVA

												•						
							PA	NE	L	"1	L1	"						
VOLT	S/PH/	SE/W	IRE:			PANEL SIZE & TYPE:	MAI	MAIN SIZE & TYPE:				LOCATION: CABIN			NET: NOTES:			
	•	, 3 PI		VIRE		22" W x 6" D, BOLT-	I	AMPE			(R	SIMULATOR RANGE	SURF					
<u> </u>	SSORI					RY, IDENTIFICATION, GR										•		
СКТ	OC			D (k		DESCRIPTION			ASE L		LCL	DESCRIPTION	LO	AD (k	VA)	00	P.	СКТ
NO	AMP	POLE	LTG		PWR		kV		В	С	kVA		LTG		PWR	АМР	POLE	
1	20	1	0.2			EMERG LIGHTS	0.3	0.9			0.7	OFFICE - 103		0.7		20	1	2
3	20	1			1.0	ZONE DAMPER	S 1.0)	1.7		0.7	OFFICE - 102		0.7		20	1	4
5	20	1			1.0	ZONE DAMPER	S 1.0)		1.7	0.7	OFFICE - 101		0.7		20	1	6
7	20	1			1.0	ZONE DAMPER	S 1.0	1.7			0.7	CONFERENCE - 108		0.7		20	1	8
9	20	1		0.2		ROOF OUTLET	0.2	2	0.9		0.7	OFFICE - 107		0.7		20	1	10
11	20	1				SPARE	0.0)		0.7	0.7	OFFICE - 106		0.7		20	1	12
13	20	1				SPARE	0.0	0.7			0.7	RECEPTION - 105		0.7		20	1	14
15	20	1				SPARE	0.0)	0.5		0.5	SIMULATOR - 110		0.5		20	1	16
17	20	1				SPARE	0.0)		0.0	0.0	SPARE				20	1	18
19	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	20
21	20	1				SPARE	0.0)	0.0		0.0	SPARE				20	1	22
23	20	1				SPARE	0.0)		0.0	0.0	SPARE				20	1	24
25	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	26
27	20	1				SPARE	0.0)	0.0		0.0	SPARE				20	1	28
29	20	1				SPARE	0.0)		0.0	0.0	SPARE				20	1	30
31	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	32
33	20	1				SPARE	0.0)	0.0		0.0	SPARE				20	1	34
35	20	1				SPARE	0.0)		0.0	0.0	SPARE				20	1	36
37	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	38
39	20	1				SPARE	0.0)	0.0		0.0	SPARE				20	1	40
41	20	1				SPARE	0.0)		0.0	0.0	SPARE				20	1	42
TOTA	LS:					CONNECTED k	VA PER PHAS	E 3	3	2			CONNE	CTED	TOTAL	_ kVA	9	
						CONNECTED AMI	PS PER PHAS	E 28	26	20		CONNECTED A	VERAGE A	MPS I	PER P	HASE	25	
NEC					CULA													
		HTING						OTHER					DIVER					9
RE	CEPT	ACLES	6kVA	@ 10	0% =	6 kVA	25%	OF LA	RGES	т мот	OR =	0 kVA	AVERAGE	AMPS	PER	PHAS	E =	25

LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, LEACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE.

CVALDOL	MARK	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR		WA TTO	VOL TO	MANUEACTURE		NOTEO
SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURE	R CATALOG NUMBER	NOTES
	E1	EXIT SIGN: THERMOPLASTIC HOUSIN	IG; UNIVER	RSAL MOUNT	ING; UNIVE	RSAL ARROWS	PER PLANS; EMERGENCY BATTERY PACK	
		WITH 10 YEAR PRO-RATA WARRAN	TY; LED, I	DIFFUSE LEN	S PANEL;	GREEN LETTER	S ON WHITE BACKGROUND. MUST MEET	
		NFPA ILLUMINATION STANDARDS.						
	E1-1	SINGLE FACE:	LED	1W	120/277	V DUAL-LITE	LXSGWE	
						EELP	XE 1 GW EM	
						LITHONIA	LOM C W 1 C 120 /277 FIN	

	E1-1	SINGLE FACE:	LED	1W	120/277V DUAL-LITE	LXSGWE
					EELP	XE 1 GW EM
/	43				LITHONIA	LQM S W 1 G 120/277 ELN
(E1-	-1)				SURE-LITES	LPX70DGW
)				DAY-BRITE	CXL-1-GW-EM
					CHLORIDE	SLN1GW
					LIGHTOLIER	LTN1GW

EL	LOW PROFILE SELF-CONTAINED EMER	GENCY LIGHT	Γ; FULLY	ADJUSTABLE HEADS; FIXE	D TEST SWITCH,	CHARGE RATE
	INDICATOR; 90 MINUTE OPERATION; L	OW VOLTAGE	DISCON	NECT; 5 YEAR PRO-RATA	WARRANTY.	
EL-1	TWO-HEADED UNIT, SURFACE	LAMPS	15W	120/277V DUAL-LITE	EZ-2-A2	
	MOUNTED.	INC?D		HUBBELL	PE615-2R6H WITH	CORDSET
	CORDSET ATTACHED			LITHONIA	ELM-CSR	
				SURE-LITES	CC-3-CSK-120	
				MCPHILBEN	CT6 WITH CORDSET	

			EELP	EM-1 WITH CORDSET	
GS	TROFFERS: RECESSED FOR LAY-IN	GRID; STATIC; HINGE	O AND LATCHED STEEL DO	OR; .125 ACRYLIC PRISMATIC LENS,	
	MINIMUN 1/8"; EARTHQUAKE CLIPS;	MAX 5" DEEP; SPECII	FICATION GRADE; PROGRAM	M START ELECTRONIC BALLASTS, T8	
	LAMPS; ONE BALLAST PER FIXTURE	WHERE POSSIBLE, UN	LESS TWO LEVEL SWITCHIN	G IS SHOWN ON THE PLANS.	
GS-3	2X4, 2 LAMP.	2-F32T8 65W	277/120V LITHONIA	2 SP8G 232 A12125 MVOLT TUBRHP	
GS-3)		RE835	METALUX	2GP-232A125-UNV-EB81-PROGRAM STA	ART
			DAYBRITE	2DPG232-FS21-UNV-1/2EB-SPEC	

LIGHTOLIER

E112LT6W-LCK1

LA125 232 SD SS010PS UE

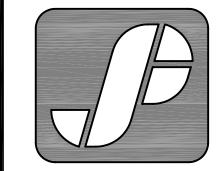
N2PG18 332 FD SS010PS 2BC UE

LIGHTOLIER DPS2G18LP332-U-03P

									LIGHTOLIE	:R	XT2GVI	232-UNV	-SOP		
									COLUMBIA	4	4PS24-	-232G-F	SA12.125	-EB8	-PROG
P3	PARABOLIC	LOUVER	FIXTURES	WITH 3	" LOUVE	RS IN P	LASTIC	PROTEC	TORS AND) FULL	DEPTH	REFLECT	OR;	SIZE A	S NOTED;
	PROGRAM	START EL	ECTRONIC	BALLAS	STS PER	SPECS;	T8 LAN	MPS; ON	E BALLAS	T PER	FIXTUR	E UNLES	SS NOTE	D FOR	SWITCHING;
	STATIC OR	AIR RET	URN AND	HEAT R	EMOVAL;	EARTH(QUAKE (CLIPS IN	STALLED	ON ON	I GRID F	IXTURES;	HINGED	AND	LATCHED
	DOOR; LOV	V IRIDESC	ENT LOUVI	ER FINIS	SH, VERT	TCAL GR	AIN DIE	STAMPE	D LOUV	ERS; 1	WO FOR	MED BAL	LAST CO	OVERS;	MAX

	DOOR; LOW IRIDESCENT LOUVER F 1300 CD/M2 ABOVE 45 DEGREES.	· ·	L GRAIN	I DIE STAMPED LOUVERS;	TWO FORMED BALLAST COVERS; MAX
P3-6 (P3-6)	2X4, 18 CELL LAY-IN; SEMI- SPECULAR SILVER, 3-LAMP. STATIC.		95W	277/120V LITHONIA DAYBRITE METALUX COLUMBIA LSI LIGHTOLIER	2PM3NGB-332-18LD-MVOLT-1/3TUBRHP-2R 2P3GS332-36SL-UNV-1/3-EB-SPEC 2EP3GX-332S36I-UNV-PROGRAM START-2BC P424-332G-LD36-S-3EB8120/277 PROG N2PG18 332 FD SSO10PS 2BC UE DPS2G18LP332-U-03P
P3-6d (P3-6d)	2X4, 18 CELL LAY—IN; SEMI— SPECULAR SILVER, 3—LAMP. STATIC. 1% DIMMING BALLAST	3–F32T8 RE835	95W	277/120V LITHONIA DAYBRITE METALUX COLUMBIA	2PM3NGB-332-18LD-MVOLT-1/3TUBRHP-2R 2P3GS332-36SL-UNV-1/3-EB-SPEC 2EP3GX-332S36I-UNV-PROGRAM START-2BC P424-332G-LD36-S-3EB8120/277 PROG

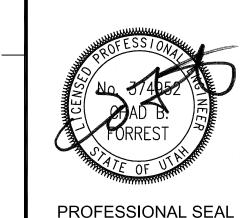
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CONSULTANTS

MECHANICAL ENGINEER
SPECTRUM ENGINEERS

ELECTRICAL ENGINEERS
SPECTRUM ENGINEERS

\RD





	8-8-05	CONST. DOCUMENTS
MARK	DATE	DESCRIPTION

	OWNER PROJECT NO:
	ARCH. PROJECT NO: 05-26
	CAD DWG FILE:
	DRAWN BY: PSS
	CHECKED BY: CBF
	DESIGNED BY: DLA
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SHEET TITLE SCHEDULES

EQUIPMENT SCHEDULE ITEM DESCRIPTION LOAD DATA **OVERCURRENT** DISCONNECT STARTER DATA NOTES MARK WIRE AND PROTECTION CONDUIT SIZE HP kW MCA FLA VOLT PH Hz FURN| DEVICE |LOCATION|FURN| DEVICE |LOCATION|FURN| DEVICE |LOCATION|SIZE| SPEED |CTRL|SELECTOR| PUSH |NORMALLY|NORMALLY| PHASE |SCHEMATIC| REMOTE OPEN | CLOSED | FAILURE | REFERENCE | CTRL VOLT SWITCH BUTTON LAMP CONTACTS CONTACTS RELAY ROOFTOP UNIT 1" CND, 3EA #8AWG, 40/3 PANEL 30/3 | ADJ TO | Q 1EA #10AWG GND C. B. 1H1 RK5-30 UNIT

©**⊿**₫

EQUIPMENT SCHEDULE KEY DIVISION 16 FURNISHED WITH THE EQUIPMENT

REMAINDER OkVA @ 50% =